GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:5338
ANSWERED ON:06.04.2017
Polluted Ground Water
Kamaraaj Dr. K.

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) the percentage of ground water polluted due to industrial wastes and pesticides, State-wise;

(b) the targets set and achieved for decontamination of ground water during each of the last two years;

(c) the regional rate of depletion of ground water, State-wise;

(d) whether data with respect to total ground water reserves in the country has been mapped by use of any technology; and

(e) if so, the details thereof and if not, the reasons therefor?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION
(DR. SANJEEV KUMAR BALYAN)

(a) As per information received, Central Pollution Control Board (CPCB) is monitoring ground water at 807 locations throughout the Country. However no study has been conducted to identify percentage of pollution in ground water due to industrial wastes and pesticides.

The ground water available in the Country, in general, is potable and suitable for various usage. However, localized occurrence of ground water having various chemical constituents in excess of the limits prescribed for drinking water use has been observed in almost all the states. The commonly observed contaminants such as Arsenic, Fluoride and Iron are geo-genic, whereas, contaminants such as nitrates, phosphates, heavy metals etc. owe their origin to various human activities including domestic sewerage, agricultural practices and industrial effluents.

In view of the increasing concerns about the deterioration in ground water quality a report entitled 'Ground Water Quality in Shallow Aquifers of India' has been prepared by Central Ground Water Board (CGWB).

(b) Ministry of Drinking Water and Sanitation (MoDWS) has informed that upto 67% fund allocated to the States under National Rural Drinking Water Programme (NRDWP) can be utilized for coverage of water quality affected habitations and for tackling water quality problems.

As a short-term measure, under recommendations of NITI Aayog, Central Government as one-time measure has released Rs. 800 crore on 100% funding basis to States for setting up of Community Water Purification Plants (CWPP) in habitations affected by Arsenic and Fluoride and another Rs. 100 crore each for the West Bengal and Rajasthan States to complete the ongoing water supply schemes in Arsenic and Fluoride affected habitations. As a long-term measure, MoDWS has launched National Water Quality Sub-Mission (NWQSM) for providing safe drinking water for Arsenic and Fluoride affected habitations and has released Rs. 814.14 crore during current Financial year for completing ongoing water quality affected schemes

(c) As per the ground water level data monitored by Central Ground Water Board (CGWB), Pre-monsoon (April/ May, 2016) water level data when compared with the decadal average (2006-2015) indicate that 66% of the wells have registered decline in ground water level in certain pockets in all the States/UTs of the Country. State-wise details are given at Annexure-I.

(d) & (e) Ground water data collected/ generated by State Ground Water Departments and CGWB is used to estimate the annual replineshible ground water resources of the Country periodically using a well defined methodology viz. Ground Water Resource Estimation Committee methodology (1997). State-wise details are given at Annexure-II.
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ANNEXURE-I

Annexure referred in reply to Lok Sabha Question No. 5338 for reply on 06.04.2017 regarding 'Polluted Ground Water'

State-wise Decadal Water Level Fluctuation
With Mean Premonsoon (2006 to 2015) and Premonsoon 2016

S.No. Name of State No. of wells Analysed Rise Fall

		No.	%	No.	%	
1	Andhra Pradesh	547	236	43	308	56
2	Arunachal Pradesh	14	10	71	4	29
3	Assam	182	84	46	98	54
4	Bihar	551	180	33	369	67
5	Chandigarh	11	4	36	7	64
6	Chhattisgarh	616	165	27	451	73
7	Dadra & Nagar Haveli	12	6	50	6	50
8	Daman & Diu	10	2	20	8	80
9	Delhi	115	26	23	89	77
10	Goa	70	41	59	29	41
11	Gujarat	738	254	34	475	64
12	Haryana	643	184	29	454	71
13	Himachal Pradesh	95	36	38	59	62
14	Jammu & Kashmir	225	83	37	142	63
15	Jharkhand	212	86	41	126	59
16	Karnataka	1380	415	30	949	69
17	Kerala	1240	454	37	779	63
18	Madhya Pradesh	1343	502	37	838	62
19	Maharashtra	1487	437	29	1041	70
20	Meghalaya	17	6	35	11	65
21	Odisha	1103	395	36	705	64
22	Puducherry	6	5	83	1	17
23	Punjab	613	129	21	482	79
24	Rajasthan	829	346	42	481	58
25	Tamil Nadu	587	345	59	242	41
26	Telangana	377	66	18	308	82
27	Tripura	28	21	75	7	25
28	Uttar Pradesh	629	95	15	534	85
29	Uttarakhand	44	21	48	23	52
30	West Bengal	899	310	34	589	66
Total		14623	4944	34	9615	66

Note: 64 wells show no change in water level

ANNEXURE-II

Annexure referred in reply to Lok Sabha Question No. 5338 for reply on 06.04.2017 regarding 'Polluted Ground Water'

STATE-WISE GROUND WATER RESOURCES AVAILABILITY (As on March 2011)

S.No.	States / Union Territories	Annual Replenishable Ground Water Resource	Natural Discharge during non-monsoon season	Net Annual Ground Water Availability
	States			
1	Andhra Pradesh	20.7892	1.9064	18.8828
2	Telangana	15.098	1.4138	13.6844
3	Arunachal Pradesh	4.5100	0.4500	4.0600
4	Assam	28.5200	2.7300	25.7900
5	Bihar	29.3350	2.4705	26.8645
6	Chhattisgarh	12.4200	0.7900	11.6300
7	Delhi	0.3105	0.0234	0.2871
8	Goa	0.2424	0.0970	0.1454
9	Gujarat	18.5686	0.9832	17.5854
10	Haryana	10.7800	0.9900	9.7900
11	Himachal Pradesh	0.5590	0.0280	0.5311
12	Jammu & Kashmir	4.2512	0.4251	3.8261
13	Jharkhand	6.3100	0.5500	5.7600
14	Karnataka	17.0266	2.2154	14.8112
15	Kerala	6.6864	0.6134	6.0730
16	Madhya Pradesh	35.0406	1.7520	33.2886
17	Maharashtra	33.9474	1.7955	32.1519
18	Manipur	0.4401	0.0440	0.3961
19	Meghalaya	1.7805	0.1780	1.6024
20	Mizoram	0.0304	0.0030	0.0273
21	Nagaland	0.6159	0.0616	0.5543
22	Odisha	17.7768	1.0859	16.6909
23	Punjab	22.5300	2.2100	20.3200
24	Rajasthan	11.9414	1.1125	10.8290

25	Sikkim*	-	0.0442
26	Tamil Nadu	21.5326	2.1533 19.3793
27	Tripura	2.5866	0.2286 2.3580
28	Uttar Pradesh	77.1900	5.5300 71.6600
29	Uttarakhand	2.0403	0.0449 1.9954
30	West Bengal	29.2511	2.6688 26.5823
Total (States)		432.11	34.55 397.60
Union Territories			
1	Andaman & Nicobar	0.3080	0.0216 0.2865
2	Chandigarh	0.0216	0.0022 0.0194
3	Dadara& Nagar Haveli	0.0622	0.0031 0.0591
4	Daman & Diu	0.0181	0.0012 0.0169
5	Lakshdweep	0.0105	0.0070 0.0035
6	Puducherry	0.1893	0.0190 0.1703
Total (UTs)		0.6100	0.0500 0.5600
Grand Total		432.72	34.60 398.16